

ABSTRACT OF THE DISCLOSURE

In a DC motor driven by sinewave power-on driving and having hall elements shift-mounted relative to a stator for detecting the position of a rotor, a reduction in starting torque is eliminated by avoiding a braking action occurring when switching phases on starting the motor. In the case of the sinewave power-on driving, the braking action may occur owing to delay of the current flowing through the windings of the motor by the influence of an inductance value of stator windings and induced voltage of the motor. In order to avoid the braking action, hall elements for detecting the position of the rotor are shift-mounted. However, the braking action would be likely to occur on the contrary, because the induced voltage is low when the motor is started. To solve this problem, according to the invention the 120° rectangular wave power-on driving is executed for starting the motor until the number of revolutions of the motor has attained a predetermined value after starting, thereby reducing the undesirable braking action.